

## **MAINTENANCE BULLETIN # 32**

***Subject: Policy: Lubrication, Oil Service, Maintenance and Testing Interval.  
Cal EMA Fire Engines, Water Tenders, Communications and  
Support Apparatus.***

This bulletin supersedes Maintenance Bulletin #32 of 3-2011

In order to operate a safe, dependable and cost-effective fleet of fire, heavy rescue-fire, communications and support vehicles, the following minimum standards shall apply:

### **ANNUALLY OR EVERY 6000 MILES, WHICHEVER OCCURS FIRST:**

1. OIL AND OIL FILTER CHANGE (This shall include auxiliary pump engines on apparatus so equipped.)

Use the grade and viscosity of oil recommended by the engine manufacturer.

2. CHASSIS LUBRICATION

Lubricate the entire chassis and check all fluid levels.

3. AIR CLEANERS

DRY: Service element or replace. Inspect mounting brackets, inlet hoses and gasket sealing surfaces. Check all ember protection screens.

4. FUEL-WATER SEPARATOR

Drain water from the separator. Replace the element any time water separator becomes contaminated enough that water level cannot be seen through the transparent cover. Note: The water separator is not a filter. Replace fuel filter(s) at the scheduled interval or more frequently depending on operating conditions.

5. COOLING SYSTEM

Check for proper solution of coolant and rust inhibitor.

6. BRAKE ADJUSTMENT

Now and whenever necessary.

7. DISCHARGE AND DRAIN VALVES

Lubricate and exercise.

State of California  
**CALIFORNIA EMERGENCY MANAGEMENT AGENCY**  
Fire and Rescue Division

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8. BRAKE INSPECTION - MAJOR

Per Cal EMA Maintenance Bulletin No. 27.

9. ENGINE TUNE UP

Per engine manufacturer's recommendations.

10. FUEL FILTER(S)

Replace.

11. TEST PUMP - FROM DRAFT

Record results and forward a copy to Cal EMA Sacramento.

12. TEST ALL HOSE

Report failures to Cal EMA Sacramento. Cal EMA will replace hose which cannot be recoupled or is otherwise unserviceable.

13. **PERFORM SMOKE OPACITY TEST – Diesel powered vehicles 4 years and older, having a Gross Vehicle Weight of over 6000#. *Send copy of results to Cal EMA Fire & Rescue, 3650 Schriever Ave., Mather CA 95655***

**II. 36 Months or 3000 HOURS, WHICHEVER OCCURS FIRST**

1. Service Allison Transmission per. Maintenance Bulletin #25.
2. Drain and refill all gear boxes and differentials.  
Use the correct lubricant, to the proper level.

**GENERAL**

Record all maintenance and repair work in the State Automotive Maintenance Record Book #STD 271 (located in the Apparatus Log Book). All repairs or maintenance involving expenditure of State funds must have prior approval of Cal EMA Sacramento before proceeding.

Chassis lubrication, oil and filter service and air cleaner service shall be completed any time the apparatus has been subjected to severe adverse operating conditions such as prolonged use on wildland fires. Wheel bearings shall be serviced when apparatus is subjected to fording muddy water during flood emergencies.

***NOTE:** Daily, weekly and monthly visual checks, inspections and service as defined on the reverse of Cal EMA Form F-101 (Daily Apparatus Report) shall also continue to be performed.*